

Amendments

In the Claims:

Claim 1. (Currently amended) A carding machine having:

a roller which has a direction of rotation;

a carding segment opposing said roller and comprising a carrier and first and second carding elements arranged one behind the other in the direction of rotation of the roller;

wherein:

said first carding element has a first carding surface;

said second carding element has a second carding surface;

said carding segment, exclusive of said carding elements, is immovable; and

at least one of said carding surfaces is inclined with respect to a tangent at the opposed roller surface.

Claim 2. (Original) A carding machine according to claim 1, in which the carding elements are arranged in stationary manner.

Claim 3. (Original) A carding machine according to claim 1, in which said roller is the carding cylinder of the carding machine.

Claim 4. (Original) A carding machine according to claim 1, in which the carding elements are non-movable.

Claim 5. (Original) A carding machine according to claim 1, in which the carding elements are movable.

Claim 6. (Original) A carding machine according to claim 1, in which the first and second carding elements are arranged to be individually movable in the carrier.

Claim 7. (Original) A carding machine according to claim 1, in which the carding elements are each rotatable about an axis parallel to the roller.

Claim 8. (Original) A carding machine according to claim 6, in which an adjusting device for the rotation is provided.

Claim 9. (Original) A carding machine according to claim 6, in which each carding element is arranged to be rotatable in the carrier with two degrees of freedom.

Claim 10. (Original) A carding machine according to claim 1, in which said first and second elements are each inclined relative to respective tangents at the opposed roller surface, the angle of inclination being substantially the same.

Claim 11. (Original) A carding machine according to claim 1, in which said first and second elements are each inclined to respective tangents at the opposed roller surface, the angles of inclination being different.

Claim 12. (Original) A carding machine according to claim 10, in which the or each angle of inclination is acute.

Claim 13. (Original) A carding machine according to claim 1, in which said first and second elements are each inclined relative to respective tangents at the opposed roller surface, at least one of the elements having an angle of inclination that is obtuse.

Claim 14. (Original) A carding machine according to claim 1, in which an angle of inclination can be changed in operation and out of operation of the carding machine.

Claim 15. (Original) A carding machine according to claim 1, in which the angle of inclination for two carding elements can be changed simultaneously, the angular position settings of the carding elements being coupled to one another.

Claim 16. (Original) A carding machine according to claim 15, in which, when the angles are changed, the transmission ratio (angular change) of each carding element is different.

Claim 17. (Original) A carding machine according to claim 15, comprising a central adjusting device for changing the angles of all the carding elements.

Claim 18. (Original) A carding machine according to claim 1, in which the angle of inclination is arranged to be changeable starting from a tangential position of the carding surface of the carding element (zero point).

Claim 19. (Original) A carding machine according to claim 1, in which the carding nip becomes smaller at the first carding element and larger at the second carding element, seen in the direction of rotation of the cylinder.

Claim 20. (Original) A carding machine according to claim 1, in which the first and second elements form with the roller first and second carding nips, the spacings at the narrowest locations of each of the first and second carding nips being the same or substantially the same.

Claim 21. (Original) A carding machine according to claim 1, in which two or more said carding elements are arranged to be adjusted in stepped manner from carding segment to carding segment, for example to be changed centrally by 0.5° .

Claim 22. (Currently amended) A carding machine according to claim 1, in which the 45 position of the carding elements can be detected.

Claim 23. (Original) A carding machine according to claim 1, in which at least one device comprising a said carding segment is arranged in one or more zones selected from the preliminary carding zone between a licker-in and the rear card-top-deflecting roller of the revolving card top, the after-carding zone between a doffer and a front card-top-deflecting roller of the revolving card top, and an underneath carding zone on said carding cylinder between a doffer and a licker-in of said carding machine.

Claim 24. (Original) A carding machine according to claim 23, comprising two or more said carding segments.

Claim 25. (Previously presented) A carding machine according to claim 1, in which the roller is a cylinder and only stationary card top elements are associated with the cylinder of the carding machine, a plurality of said carding segments being provided at the cylinder.

Claim 26. (Currently amended) A carding machine wherein at least one stationary carding element segment comprising a carrier and a carding element is associated with a roller, for example a cylinder, and wherein the clothing of the carding element and the roller clothing are located opposite one another, wherein the carding surface of the carding element forms an angle to a tangent at the clothing of the roller, ~~and~~ the carding element is arranged in stationary manner with respect to the roller, and said carding segment, exclusive of said carding elements, is immovable.

Claim 27. (Original) A carding machine according to claim 26, in which a plurality of carding segments are arranged behind one another in the work direction.

Claim 28. (Currently amended) A carding machine having a roller which has a direction of rotation, and a carding segment, the carding segment having a carrier and at least first and second carding elements which are arranged one behind the other in the direction of rotation of the roller and in opposing relationship to the roller, wherein said first and second carding elements each have a carding surface, at least one of said carding surfaces is inclined with respect to a tangent at the opposed roller surface, ~~and~~ said first and second carding elements are arranged to be stationary relative to the roller in operation, and said carding segment, exclusive of said carding elements, is immovable.

Claim 29. (Currently amended) Apparatus at a carding machine, wherein at least one stationary carding segment comprising a carrier together with at least two carding elements is associated with a roller, for example a cylinder, which carding elements are arranged behind one another in the direction of rotation of the roller, and wherein the clothings of the carding elements and the roller clothing are located opposite one another, wherein the carding surface of at least one carding element forms an angle with a respective tangent at the clothing of the roller, ~~and~~ the carding elements are arranged in stationary manner with respect to the roller, and said carding segment, exclusive of said carding elements, is immovable.